

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	10942	((29/610.1,613,611,612,619,621,854,505,508,509,510,511) or (72/356) or (123/169) or (445/7)). CCLS.	USPAT; USOCR	OR	OFF	2005/10/14 12:01
S2	3176	S1 and @ad<"20021025"	USPAT	OR	OFF	2005/10/14 11:16
S3	912	S2 and (electrode or spark or plug)	USPAT	OR	OFF	2005/10/14 11:16
S4	11351	((29/610.1,613,611,612,619,621,854,505,508,509,510,511) or (72/356) or (123/169) or (445/7)). CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/14 12:02
S5	912	S3 and @ad<"20021025"	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/14 11:17
S6	912	S5 and (electrode or spark or plug)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/14 11:17
S7	3345	S4 and @ad<"20021025"	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/14 11:17
S8	973	S7 and (electrode or spark or plug)	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/14 11:18
S12	190	S4 and @ad>"20021025" and @ad<"20031021"	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/14 12:04
S13	10	S12 and spark and electrode	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/14 12:32
S14	17380	spark near1 plug	USPAT	OR	OFF	2005/10/14 12:47
S15	8897	spark near1 plug	JPO	OR	OFF	2005/10/14 12:47
S16	1384	S15 and (spark or electrode).ti.	JPO	OR	OFF	2005/10/14 12:47
S17	267	S16 and method	JPO	OR	OFF	2005/10/14 12:49
S18	121	S15 and (spark and electrode).ti.	JPO	OR	OFF	2005/10/14 12:49
S19	28	S18 and method	JPO	OR	OFF	2005/10/14 12:50
S24	17	("2265352" "3010196" "3119944" "3356882" "3407326" "3967149").PN. OR ("4705486"). URP.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/14 14:08

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	344	("spark plug" and electrode).ti. and method	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/17 10:03
S2	206	("spark plug" and electrode).ti. and method	EPO; DERWENT; IBM_TDB	OR	OFF	2005/10/14 14:23
S3	23	S2 and copper	EPO; DERWENT; IBM_TDB	OR	OFF	2005/10/14 14:35
S4	6	((("2310643") or ("3803892") or ("3548472") or ("3857145")).PN.	USPAT; USOCR	OR	OFF	2005/10/14 15:02
S5	1600	(29/505,508).CCLS.	USPAT; USOCR	OR	OFF	2005/10/14 15:02
S6	21	S5 and nickel and copper	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/14 15:04
S7	1241	(29/511).CCLS.	USPAT; USOCR	OR	OFF	2005/10/14 15:05
S8	2	S7 and copper and nickel	USPAT	OR	OFF	2005/10/14 15:05
S9	20	S7 and spark	USPAT	OR	OFF	2005/10/14 15:07
S10	32	S7 and cup	USPAT	OR	OFF	2005/10/14 15:10
S11	38	S7 and press and fit	USPAT	OR	OFF	2005/10/14 15:10
S12	17	S7 and press adj fit	USPAT	OR	OFF	2005/10/14 15:12
S13	0	S7 and die and punh	USPAT	OR	OFF	2005/10/14 15:13
S14	11	S7 and die and punch	USPAT	OR	OFF	2005/10/14 15:15
S15	4153	(29/432,525,746,761).CCLS.	USPAT; USOCR	OR	OFF	2005/10/14 16:04
S16	1353	S15 and (cup or electrode or oil or nickel or copper or die or punch)	USPAT; USOCR	OR	ON	2005/10/14 16:06
S17	312	S15 and die and punch	USPAT; USOCR	OR	ON	2005/10/14 16:07
S18	29	S15 and die and punch and core	USPAT; USOCR	OR	ON	2005/10/17 08:30
S19	1051	(bimettalic or bimetal) and (central or center) and electrode	USPAT; USOCR	OR	ON	2005/10/17 08:31
S20	2096	(bimetallic or bimetal) and (central or center) and electrode	USPAT; USOCR	OR	ON	2005/10/17 08:31
S21	261	(bimetallic or bimetal) and (central or center) and electrode and spark	USPAT; USOCR	OR	ON	2005/10/17 08:53

S22	80	(bimetallic or bimetal) and (central or center) and electrode and spark and (press or extrude or extrusion)	USPAT; USOCR	OR	ON	2005/10/17 08:54
S23	77	("0638807" "1114205" "1521732" "1789078" "2321344" "2615441" "2748932" "2838000" "2849788" "2898395" "2898666" "2945293" "2954495" "2955222" "3040417" "3119944" "3142256" "3144576" "3252207" "3332140" "3349711" "3356882" "3426685" "3548239" "3548472" "3643322" "3803892" "3818555" "3857145" "3889366" "4351095" "4446618" "4684352" "4699600" "4700103" "4705486").PN. OR ("4352225" "4526551" "4575343" "4585421" "4606730" "4803395").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/10/17 09:20
S25	1880	(29/517).CCLS.	USPAT; USOCR	OR	OFF	2005/10/17 09:37
S26	41	S25 and (extrude or extrusion)	USPAT	OR	ON	2005/10/17 10:02
S27	2	press near3 fit near3 core near3 cup	USPAT; USOCR	OR	OFF	2005/10/17 10:03
S28	5	("spark plug" and electrode).ti. and (press-fit or press adj fit)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/17 10:05
S29	50	("spark plug" and electrode).ti. and (extrude xor extrusion)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/17 10:06
S30	34	("spark plug" and electrode).ti. and (extrude xor extrusion)	USPAT; USOCR; EPO; DERWENT	OR	OFF	2005/10/17 10:06

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	677	(445/50).CCLS.	USPAT; USOCR	OR	OFF	2005/10/17 15:26
S2	7	S1 AND (extrude or extrusion)	USPAT	OR	ON	2005/10/17 10:37
S3	8	S1 and spark not S2	USPAT	OR	ON	2005/10/17 10:38
S4	685	(445/7).CCLS.	USPAT; USOCR	OR	OFF	2005/10/17 10:38
S5	34	S4 and (extrude or extrusion)	USPAT	OR	ON	2005/10/17 11:46
S6	62	S4 and (punch or press or press-fit)	USPAT	OR	ON	2005/10/17 10:40
S7	62	S4 and (punch or press or press-fit or press-fitting)	USPAT	OR	ON	2005/10/17 10:40
S8	10	(US-6869328-\$ or US-5551902-\$ or US-5743777-\$ or US-5310373-\$ or US-5014656-\$ or US-4695759-\$ or US-4684352-\$ or US-4606730-\$ or US-4526551-\$ or US-3857145-\$). did.	USPAT	OR	ON	2005/10/17 10:57
S9	70	("0638807" "0993214" "1228487" "1468858" "1521732" "1789078" "2038042" "2252636" "2371716" "2646782" "2783409" "2849788" "2874460" "2945293" "2954495" "2955222" "3040417" "3144576" "3234772" "3407326" "3534714" "3548239" "3548472" "3643322" "3803892" "3818555" "3857145" "3967149" "4007714" "4182281" "4314392" "4416228" "4526551" "4540910" "4575343" "4585421" "4670684" "4695759" "4808878" "4826462" "4904216" "4924829" "4931686" "5210457" "5310373" "5465022" "6346766").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/17 11:00
S10	0	("19450320").PN.	USPAT; USOCR	OR	OFF	2005/10/17 11:01
S11	2	("2371716").PN.	USPAT; USOCR	OR	OFF	2005/10/17 11:01
S12	11	(US-6869328-\$ or US-5551902-\$ or US-5743777-\$ or US-5310373-\$ or US-5014656-\$ or US-4695759-\$ or US-4684352-\$ or US-4606730-\$ or US-4526551-\$ or US-3857145-\$ or US-2371716-\$).did.	USPAT	OR	ON	2005/10/17 11:45
S13	0	S12 and oil	USPAT	OR	ON	2005/10/17 11:46
S14	20	S4 and oil	USPAT	OR	ON	2005/10/17 11:46

S15	1	"5743777".pn.	USPAT	OR	ON	2005/10/17 15:40
S16	51282	spark near3 plug and upsetting anc copper and core	USPAT	OR	ON	2005/10/17 15:40
S17	8	spark near3 plug and upsetting and copper and core	USPAT	OR	ON	2005/10/17 15:45
S18	325	spark near3 plug and (rough and edge or burr)	USPAT	OR	ON	2005/10/17 15:45
S19	107	spark near3 plug and (rough and edge or burr) and wire	USPAT	OR	ON	2005/10/17 15:48
S20	3	spark near3 plug with (rough and edge or burr) and wire	USPAT	OR	ON	2005/10/17 15:53
S23	3	deburr spark plug electrode	USPAT	AND	ON	2005/10/17 15:54
S24	4	((("4803395") or ("3548472") or ("5743777"))).PN.	USPAT; USOCR	OR	OFF	2005/10/18 10:04
S25	18	("2783409" "2955222" "3332140" "3407326" "3548239" "4585421" "4684352" "4699600" "4700103" "4705486" "4826462" "4904216" "5210457").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/10/18 10:05